

# Product Datasheet

## NLRP3/NALP3 Antibody (SC06-23) NBP2-67639

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 4

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**NBP2-67639****NLRP3/NALP3 Antibody (SC06-23)**

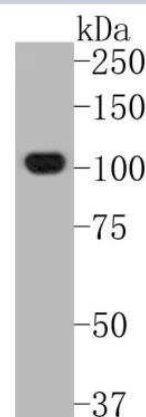
<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	SC06-23
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	TBS (pH7.4), 0.05% BSA, 40% Glycerol
<b>Target Molecular Weight</b>	118 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit NLRP3/NALP3 Antibody (SC06-23) (NBP2-67639) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-NLRP3/NALP3 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	114548
<b>Gene Symbol</b>	NLRP3
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant protein within Human NLRP3/NALP3 aa 5-161 / 1036. (SwissProt: Q96P20 Human; SwissProt: Q8R4B8 Mouse; Entrez Gene: 287362 Rat)

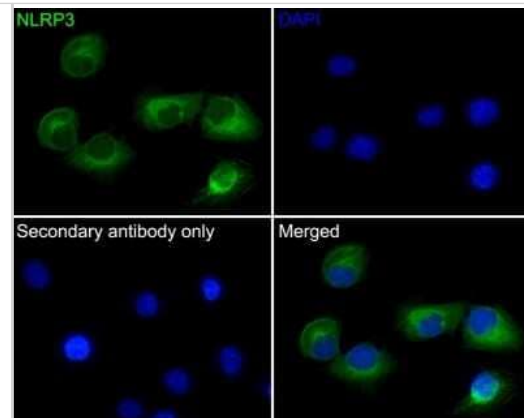
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500-1:1000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:50-1:400

**Images**

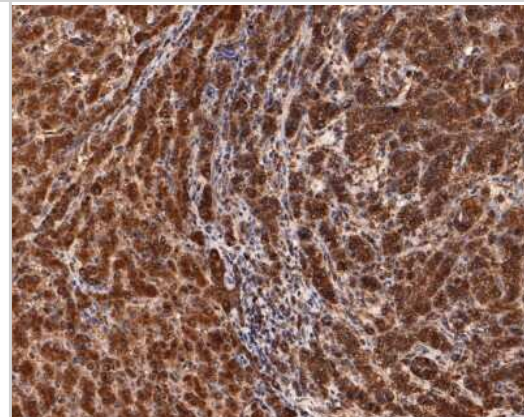
Western Blot: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of NLRP3 on human lung tissue lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hr at room temperature. The primary antibody (1:500) was used in 5% BSA at room temperature for 2 hrs. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hr at room temperature.



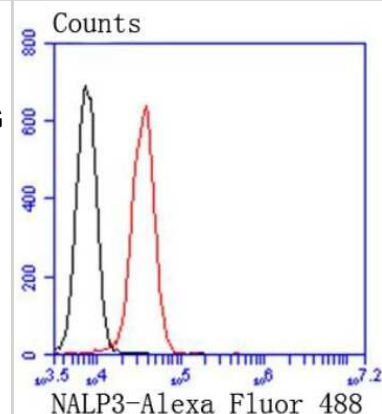
**Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of HUVEC cells labeling NLRP3/NALP3 with Rabbit anti-NLRP3 antibody (permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-NLRP3 antibody was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



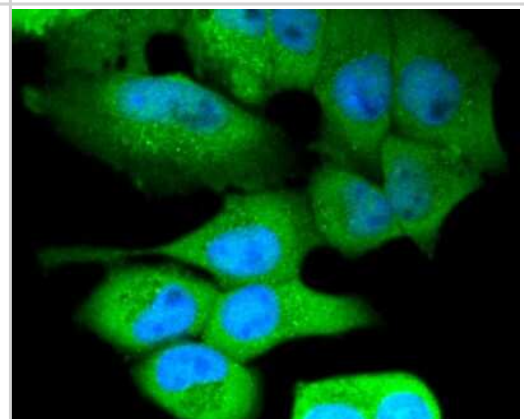
**Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of paraffin-embedded human liver carcinoma tissue with Rabbit anti-NLRP3/NALP3 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/100 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



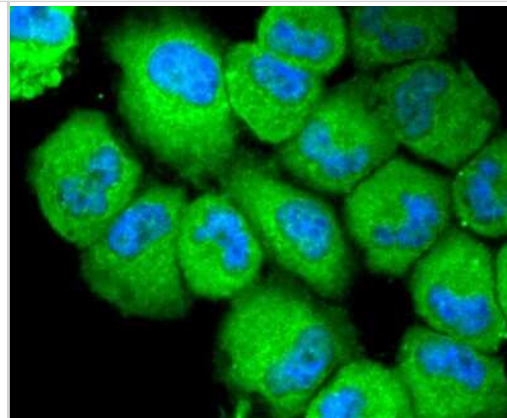
**Flow Cytometry: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Analysis of Jurkat cells with NLRP3 antibody at 1:50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



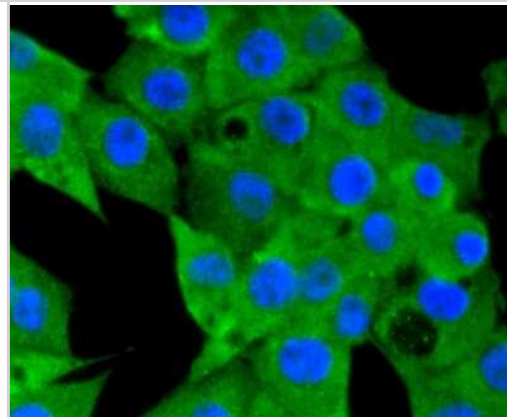
**Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639]** - Staining NLRP3 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100 in PBS.



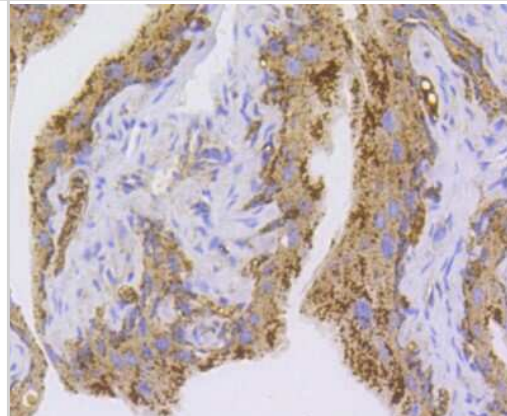
Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Staining NLRP3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100 in PBS.



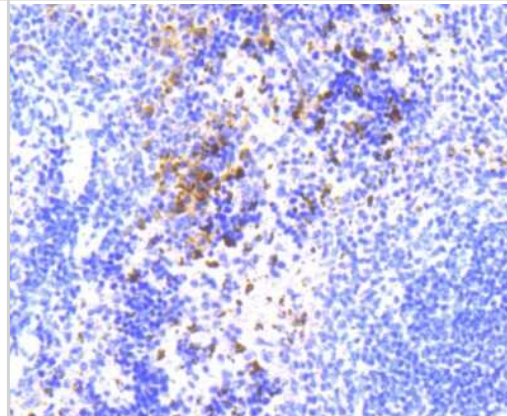
Immunocytochemistry/Immunofluorescence: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Staining NLRP3 in PMVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100 in PBS.



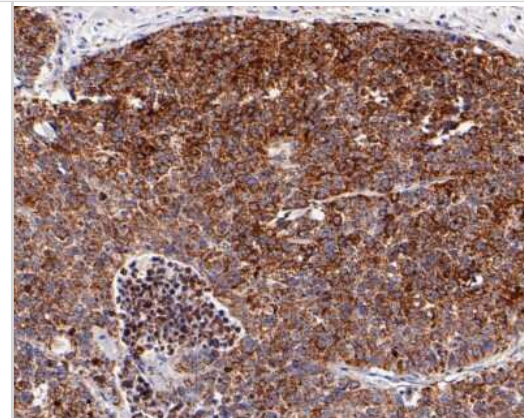
Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of paraffin-embedded mouse bladder tissue using anti- NLRP3 antibody. Counter stained with hematoxylin.



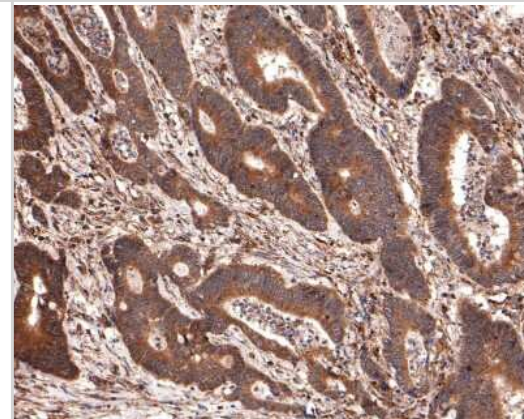
Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of paraffin-embedded mouse spleen tissue using anti- NLRP3 antibody. Counter stained with hematoxylin.



Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of paraffin-embedded human lung carcinoma tissue using anti-NLRP3/NALP3 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: NLRP3/NALP3 Antibody (SC06-23) [NBP2-67639] - Analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-NLRP3/NALP3 antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/400 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Li S, Cai Y, Shi Q et al. The NLRP3 inflammasome in alveolar macrophages promotes angiogenesis in intermittent short-duration reoxygenation which relieves chronic hypoxic pulmonary hypertension Research Square 2023-03-16 (Western Blot)

Fu Y, Cao J, Wei X et al. Klotho alleviates contrast-induced acute kidney injury by suppressing oxidative stress, inflammation, and NF-KappaB/NLRP3-mediated pyroptosis International immunopharmacology 2023-05-01 [PMID: 37018977] (Western Blot, Human)

Lee S, Ryu SM, Kim DH et al. Neuroprotective effect of Geijigadaehwang-tang against trimethyltin-induced hippocampal neurodegeneration: An in vitro and in vivo study Journal of ethnopharmacology 2022-06-17 [PMID: 35724744] (WB, Mouse)

Abu-Risha SE, Mousa MA, Elsisi AE Protective role of irbesartan against cyclophosphamide-induced testicular damage in rats via up-regulating PPAR-gamma signaling and ameliorating NF-kappaB/NLRP3/IL-18 inflammatory axis Life sciences 2022-01-15 [PMID: 34890588] (IF/IHC, Rat)



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### **Products Related to NBP2-67639**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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